Frederik Gram Kortegaard

frederikxyz@hotmail.com github.com/frederikgram Tel. +45 25790669

Personal Profile

Full-stack developer with professional experience working with Deep Learning, Natural Language Processing, Computer Vision, and Micro-Services. Passionate about Quantitative Finance and Compiler Development.

Competences

Languages			Keywords		
C/C++ Java Lua	Python Haskell Javascript	Rust x86 ASM	Machine Learning Algorithms Natural Language Processing Computer Vision Algorithms		
System- & Build Tools			Domain Specifics		
Git Jira Maven	AWS Kubernetes Jenkins	Docker Elastic Kibana	Tensorflow OpenCV NLTK	PyTorch Pandas SpaCy	Keras Scikit-Learn

Work Experience

- Universal Robots Data Analyst wrt. Predictive Maintenance
 At Universal Robots I was employed in the Research and Development
 department utilizing Data Science and Machine Learning techniques for
 the purpose of predictive maintenance for robotics using Python, sklearn,
 TensorFlow, and C++. I further partook in the development of a userfacing data gathering platform using Java, and worked with management
 and build tools such as Jira, Maven, Docker, and Jenkins.
- Findwise Consultant wrt. Natural Language Processing
 At Findwise I created and implemented Machine Learning and Natural
 Language Processing based micro- services into our data analysis pipeline,
 serving primarily as a part of our GDPR-compliance product chain.
 In connection to this, I further built Computer Vision algorithms and
 developed techniques to find and extract relevant metadata from various
 non-trivial file types such as scanned documents and blueprints.

Featured Projects

- Eridu: A Custom Programming Language. [GitHub] [Thesis] Developed a fully fledged C-Like programming language featuring various abstract data types, functions as first-class citizens, and multi-paradigm functionality. Every step including semantic analysis, machine independent optimization, custom intermediate representations, and x86 Assembly code generation was written from scratch in C.
- Content-based Deep Image-Search. [GitHub] [Paper]

 Created a search engine using TensorFlow, NLTK, and OpenCV that allows users to search images by describing their appearance using conversational language. Allowing for context to be specified such as "five people running on a beach while carrying water bottles" without any pre-existing metadata.

Education

• Bachelor of Computer Science at the University of Southern Denmark